

			Title		
			System Interface Specification (PS147-604)		
	RESPONSIBLE	DATE	SIZE	DOCUMENT NO.	REV
AUTHORS			A4	P400-5088	00
USER					
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MANUAL CHANGE PROHIBITED					SHEET 1 OF 4

System Interface Specification

PS147-604, 147kWh Battery System

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TITLE	SIZE	DOCUMENT NO.	REV
System Interface Specification (PS147-604)	A4	P400-5088	00
	MANUAL CHANGE PROHIBITED		SHEET 2 OF 4

1. Battery System Parameters

Specific parameters for the battery system blocks are detailed in the chart below

Parameter	Units	Specification	Note
Cell	Ah	23	SPB58253172P3
Series		144	Six battery racks
Parallel		12	Six battery racks
Battery Configuration			
Cell Modules	Modules	72	Each cell module contains 24 cells (12s2p)
Battery Capacity (BOL)			
Rated	Ah	276	Calculated based on cell capacity
Battery Capacity (EOL)			
Rated	Ah	193.2	Estimated at 70%
Battery Voltage			
Max	V	604.8	Determined at maximum cell voltage
Nom	V	532.8	Determined at nominal cell voltage
Min	V	388.8	Determined at minimum cell voltage
Battery Energy			
Rated	kWh	147	Calculated value based on theoretical system capacity
Battery Discharge Power			
Standard	kW	73.53	At nominal system voltage (138A*532.8V)
Max	kW	499.98	At nominal system voltage (938.4A*532.8V)
Battery Charge Power			
Standard	kW	73.53	At nominal system voltage (138A*532.8V)
Max	kW	441.16	At nominal system voltage (828A*532.8V)
Battery Discharge Current			
Standard	A	138	Continuous between 20% and 100% SOC
Max	A	938.4	Continuous between 20% and 100% SOC
Battery Charge Current			
Standard	A	138	Continuous between 0% and 80% SOC
Max	A	828	Continuous between 0% and 80% SOC
Miscellaneous			
Mass	kg	2300	Approximate calculated value
Battery Shelf Life	years	5	Continuous between 20% and 80% SOC
Operating Temperature/Humidity			
Max	% RH	85	Range (cell min/max)
Min	% RH	45	Range (cell min/max)
Max	Degrees °C	55	Zero Current Limited Above Max Operating Temp
Min(Discharge)	Degrees °C	(-)20	Zero Current Limited Below Min Operating Temp
Min(Charge)	Degrees °C	0	Zero Current Limited Below Min Operating Temp
Storage Temperature	Degrees °C	(-)20 to 25 <1year	Range (cell min/max)

Table 1 Product Technical Specifications

TITLE	SIZE	DOCUMENT NO.	REV
System Interface Specification (PS147-604)	A4	P400-5088	00
	MANUAL CHANGE PROHIBITED		SHEET 3 OF 4

2. Mechanical Drawings



Parameter	Unit	Value
X Dimension	mm	4,800
Y Dimension	mm	1,900
Z Dimension	mm	2,200
Mass	kg	2,300

Figure 1 Pack Outline Drawing